**LABORATORY DATA CONSULTANTS, INC.**

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

IWM Consulting Group
7428 Rockville Road
Indianapolis, IN 46214
ATTN: Brad Gentry

August 6, 2018

SUBJECT: REVISED Former Amphenol Facility, Data Validation

Dear Mr. Gentry,

Enclosed is the final validation report, including a revision, for the fraction listed below:

- Reason for revision: 1,2-Dichloroethane and Vinyl chloride were validated from the SIM analysis.

This SDG was received on August 1, 2018. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #42788:**SDG #**

10441103

Fraction:

Volatiles

The data validation was performed under Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Ambient Air Investigation Work Plan, Franklin Power Products/Amphenol Corporation, Franklin, Indiana; July 2018
- USEPA National Functional Guidelines for Organic Superfund Methods Data Review; January 2017

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
Project Manager/Senior Chemist

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LDC Report# 42788A48_RV1

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Former Amphenol Facility

LDC Report Date: August 6, 2018

Parameters: Volatiles

Validation Level: Level III & IV

Laboratory: Pace Analytical Services, LLC.

Sample Delivery Group (SDG): 10441103

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
AS Effluent #1 (980 Hurricane)**	10441103001**	Air	07/26/18
AA-1 North #1 (980 Hurricane)	10441103003	Air	07/26/18
AA-2 East #1 (980 Hurricane)#	10441103005#	Air	07/26/18
AA-3 South #1 (980 Hurricane)	10441103007	Air	07/26/18
AA-4 West #1 (980 Hurricane)	10441103009	Air	07/26/18
AA-5 West #2 (980 Hurricane)	10441103011	Air	07/26/18
AA Duplicate (980 Hurricane)	10441103013	Air	07/26/18
AA-4 West #1 (980 Hurricane)DUP	10441103009DUP	Air	07/26/18

**Indicates sample underwent Level IV validation for full scan

**¹ Indicates sample underwent Level IV validation for SIM

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Ambient Air Investigation Work Plan, Franklin Power Products/Amphenol Corporation, Franklin, Indiana (July 2018) and a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method TO-15 and EPA Method TO-15 in Selected Ion Monitoring (SIM) mode

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound for analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

The canisters were properly pressurized and handled with the following exceptions:

Sample	Final canister pressure (Field)	Final canister pressure (Laboratory)
AA-3 South #1 (980 Hurricane)	-11 "Hg	-3.5 "Hg

Although there was a discrepancy between the field and laboratory measurements of the final canister pressure, using professional judgment, associated results were not qualified. The laboratory indicated that upon testing, the sampling gauge was confirmed to be faulty, thus providing inaccurate final vacuum in the field.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 24 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 30.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 40.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

Canister blank analyses were performed for every sample canister. No contaminants were found in the canister blanks with the following exceptions:

Blank ID	Analysis Date	Compound	Concentration	Associated Samples
AA-2 East #1 Cert #1265	07/05/18	Trichloroethene	0.48 ug/m ³	AA-2 East #1 (980 Hurricane)

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
AA-2 East #1 (980 Hurricane)	Trichloroethene	0.20 ug/m ³	0.20U ug/m ³

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were not required by the method.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples AA-2 East #1 (980 Hurricane)**¹ and AA Duplicate (980 Hurricane) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound (Method)	Concentration (ug/m ³)		RPD
	AA-2 East #1 (980 Hurricane)** ¹	AA Duplicate (980 Hurricane)	
Trichloroethene (TO15-SIM)	0.20	0.16	22

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to canister blank contamination, data were qualified as not detected in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

Former Amphenol Facility
Volatiles - Data Qualification Summary - SDG 10441103

No Sample Data Qualified in this SDG

Former Amphenol Facility
Volatiles - Laboratory Blank Data Qualification Summary - SDG 10441103

Sample	Compound	Modified Final Concentration	A or P
AA-2 East #1 (980 Hurricane)**	Trichloroethene	0.20U ug/m ³	A

Former Amphenol Facility
Volatiles - Field Blank Data Qualification Summary - SDG 10441103

No Sample Data Qualified in this SDG



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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

Sample: AS Effluent #1 (980 Hurricane) Lab ID: 10441103001 Collected: 07/26/18 17:25 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	39.2	ug/m3	1.3	1.52		07/27/18 19:16	75-34-3	
1,2-Dichloroethane	17.9	ug/m3	0.62	1.52		07/27/18 19:16	107-06-2	
cis-1,2-Dichloroethene	411	ug/m3	36.8	45.6		07/29/18 15:37	156-59-2	
trans-1,2-Dichloroethene	3.1	ug/m3	1.2	1.52		07/27/18 19:16	156-60-5	
Methylene Chloride	ND	ug/m3	5.4	1.52		07/27/18 19:16	75-09-2	
Tetrachloroethene	1950	ug/m3	31.4	45.6		07/29/18 15:37	127-18-4	
1,1,1-Trichloroethane	285	ug/m3	50.6	45.6		07/29/18 15:37	71-55-6	
Vinyl chloride	12.1	ug/m3	0.40	1.52		07/27/18 19:16	75-01-4	
TO15 MSV AIR SHM SCAN		Analytical Method: TO-15						
Trichloroethene	665	ug/m3	2.5	45.6		07/29/18 15:37	79-01-6	

11/08/2018

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

Sample: AA-1 North #1 (980 Hurricane)		Lab ID: 10441103003	Collected: 07/26/18 17:39		Received: 07/27/18 09:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		07/27/18 15:13	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:13	156-60-5	
Methylene Chloride	ND	ug/m3	5.5	1.55		07/27/18 15:13	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.55		07/27/18 15:13	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		07/27/18 15:13	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.064	1.55		07/27/18 15:13	107-06-2	
Trichloroethene	ND	ug/m3	0.085	1.55		07/27/18 15:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.040	1.55		07/27/18 15:13	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

Sample: AA-2 East #1 (980 Hurricane)		Lab ID: 10441103005	Collected: 07/26/18 16:31	Received: 07/27/18 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		07/27/18 15:48	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:48	156-60-5	
Methylene Chloride	ND	ug/m3	5.5	1.55		07/27/18 15:48	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.55		07/27/18 15:48	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		07/27/18 15:48	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.064	1.55		07/27/18 15:48	107-06-2	
Trichloroethene	0.20 U	ug/m3	0.085	1.55		07/27/18 15:48	79-01-6	1M
Vinyl chloride	ND	ug/m3	0.040	1.55		07/27/18 15:48	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

Sample: AA-3 South #1 (980 Hurricane) Lab ID: 10441103007 Collected: 07/26/18 17:37 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.52		07/27/18 16:23	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		07/27/18 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		07/27/18 16:23	156-60-5	
Methylene Chloride	ND	ug/m3	5.4	1.52		07/27/18 16:23	75-09-2	
Tetrachloroethene	ND	ug/m3	1.0	1.52		07/27/18 16:23	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.52		07/27/18 16:23	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.062	1.52		07/27/18 16:23	107-06-2	
Trichloroethene	ND	ug/m3	0.083	1.52		07/27/18 16:23	79-01-6	
Vinyl chloride	ND	ug/m3	0.040	1.52		07/27/18 16:23	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-4 West #1 (980 Hurricane) Lab ID: 10441103009 Collected: 07/26/18 17:05 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.58		07/27/18 16:57	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 16:57	156-60-5	
Methylene Chloride	ND	ug/m3	5.6	1.58		07/27/18 16:57	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.58		07/27/18 16:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.58		07/27/18 16:57	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.065	1.58		07/27/18 16:57	107-06-2	
Trichloroethene	0.087	ug/m3	0.086	1.58		07/27/18 16:57	79-01-6	
Vinyl chloride	ND	ug/m3	0.041	1.58		07/27/18 16:57	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-5 West #2 (980 Hurricane) Lab ID: 10441103011 Collected: 07/26/18 17:16 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.58		07/27/18 18:07	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 18:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 18:07	156-60-5	
Methylene Chloride	ND	ug/m3	5.6	1.58		07/27/18 18:07	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.58		07/27/18 18:07	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.58		07/27/18 18:07	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.065	1.58		07/27/18 18:07	107-06-2	
Trichloroethene	0.43	ug/m3	0.086	1.58		07/27/18 18:07	79-01-6	
Vinyl chloride	ND	ug/m3	0.041	1.58		07/27/18 18:07	75-01-4	

SR 08/6/18

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA Duplicate (980 Hurricane) Lab ID: 10441103013 Collected: 07/26/18 16:31 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		07/27/18 18:41	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 18:41	156-60-5	
Methylene Chloride	ND	ug/m3	5.5	1.55		07/27/18 18:41	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.55		07/27/18 18:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		07/27/18 18:41	71-55-6	
TO15 MSV AIR SIM SCAN Analytical Method: TO-15								
1,2-Dichloroethane	ND	ug/m3	0.064	1.55		07/27/18 18:41	107-06-2	
Trichloroethene	0.16	ug/m3	0.085	1.55		07/27/18 18:41	79-01-6	
Vinyl chloride	ND	ug/m3	0.040	1.55		07/27/18 18:41	75-01-4	

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REPORT OF LABORATORY ANALYSIS

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LDC #: 42788A48 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 10441103 Level III/IV
 Laboratory: Pace Analytical Services, LLC

Date: 8/1/18
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA Method TO-15) / TO-15 SIM

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	SW, A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, A	RSD, 12 ICV ≤ 40
IV.	Continuing calibration	A	D ≤ 30
V.	Laboratory Blanks/Canister Blanks ^{new sample}	A/SW	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates /dup	N/A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	SW	D = 3 + 7
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level III validation.
XIII.	Target compound identification	A	Not reviewed for Level III validation.
XIV.	System performance	A	Not reviewed for Level III validation.
XV.	Overall assessment of data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

** Indicates sample underwent Level IV validation

	Client ID	Lab ID	Matrix	Date
1	AS Effluent #1 (980 Hurricane)**	10441103001**	Air	07/26/18
2	AA-1 North #1 (980 Hurricane) *	10441103003	Air	07/26/18
3	AA-2 East #1 (980 Hurricane) *	10441103005	Air	07/26/18
4	AA-3 South #1 (980 Hurricane) *	10441103007	Air	07/26/18
5	AA-4 West #1 (980 Hurricane) *	10441103009	Air	07/26/18
6	AA-5 West #2 (980 Hurricane) *	10441103011	Air	07/26/18
7	AA Duplicate (980 Hurricane) *	10441103013	Air	07/26/18
8	AA-4 West #1 (980 Hurricane) DUP *	10441103009DUP	Air	07/26/18
9				
10				

Notes: 1, L, RQR, PPP, E, AA, N, C - full scan A S - SIM except #1

3007016 MB				
3005496 MB SIM				

* 1, RQR, PPP, E, AA, N - full scan & L, S, C

LDC #: 4278A48

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 2
2nd Reviewer: 4**Method:** Volatiles (EPA Method TO-15/TO-15 SIM)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was canister pressure criteria met?	/			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 24 hour clock criteria?	/			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) < 30%?	/			
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after every ICAL for each instrument?	/			
Were all percent differences (%D) < 40%?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 24 hours for each instrument?	/			
Were all percent differences (%D) < 30% or percent recoveries (%R) 70-130%?	/			
V. Laboratory Blanks/Canister Blanks				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed at least once every 24 hours for each matrix and concentration?	/			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	/	/		
Was a canister blank analyzed for every canister?	/			
Was there contamination in the canister blanks? If yes, please see the Canister Blanks validation completeness worksheet.	/			
VI. Field Blanks				
Were field blanks identified in this SDG?		/		
Were target compounds detected in the field blanks?			/	
VII. Surrogate spikes (Optional)				
Were all surrogate percent recoveries (%R) within QC limits?			/	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VIII. Laboratory Duplicate				
Was a laboratory duplicate analyzed for this SDG?	/			
Were the relative percent differences (RPD) within the QC limits?	/			

LDC #: 42788 A48

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: AE
2nd Reviewer: AE

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	/			
Were target compounds detected in the field duplicates?	/			
XI. Internal standards				
Were internal standard area counts within $\pm 40\%$ from the associated calibration standard?	/			
Were retention times within ± 20.0 seconds from the associated calibration standard?	/			
XII. Compound quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions applicable to level IV validation?	/			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chloride	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene	BB. 1,1,2,2-Tetrachloroethane	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane	CC. Toluene	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform	EE. Ethylbenzene	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN. Iodomethane
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.1,1-Difluoroethane
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

LDC #: 4278248

VALIDATION FINDINGS WORKSHEET Canister Check Blanks

Page: 1 of 1Reviewer: PC2nd Reviewer: PC

METHOD: GC/MS VOA (EPA TO-15)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

☒ N N/A Was there contamination in the canister blanks? If yes, please see the qualifications below.
Blank analysis date: 7/5/18Conc. units: ug/m3Associated Samples: 3

Compound	Canister ID	Sample Identification							
AA-2 East #1 (can # 1265*			3**						
S	0.48		0.20						

Blank analysis date: _____

Conc. units: _____

* full scan
** SIM
text

Associated Samples: _____

Compound	Canister ID	Sample Identification							

Blank analysis date: _____

Conc. units: _____

Associated Samples: _____

Compound	Canister ID	Sample Identification							

LDC #: 4278A-48

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page: 1 of 1
Reviewer: SR
2nd reviewer: SR

METHOD: GC/MS VOA (EPA Method TO-15) / SM

☒ Y N N/A
☒ Y N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

Compound	Concentration (<u>ug/m3</u>)		RPD	Qualification
	<u>3</u>	<u>7</u>		
<u>S</u>	<u>0.20</u>	<u>0.16</u>	<u>22</u>	

Compound	Concentration ()		RPD	Qualification

Compound	Concentration ()		RPD	Qualification

LDC #: 42788A48

VALIDATION FINDINGS WORKSHEET **Initial Calibration Calculation Verification**

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA Method TO-15)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of compound,

C_x = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (1.0 std)	RRF (1.0 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	CAL		C (1st internal standard)	0.31515	0.31515	0.28040	0.28040	13.92455	13.92484
			AA (2nd internal standard)	0.65988	0.65988	0.61005	0.61005	8.94723	8.94729
			(3rd internal standard)						
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC#: 42788A48

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
 Reviewer: X
 2nd Reviewer: 9

Method: GC/MS VOA (EPA Method TO-15 SIM)

Calibration Date	GCMS	Compound	Standard	(X) Response ratio	(Y) Concentration ratio
7/25/2018	10AIRB	Trichloroethene	1	0.00022	0.001
			2	0.00036	0.001
			3	0.00074	0.002
			4	0.00179	0.01
			5	0.00362	0.01
			6	0.00711	0.02
			7	0.01055	0.03

Regression Output

	<i>Calculated</i>	<i>Reported</i>
Constant	0.00004	0.00004
R Squared	0.9999129	0.99991
X Coefficient(s)	0.3515	0.3515
Correlation Coefficient	0.9999564	
Coefficient of Determination (r ²)	0.9999129	0.99991

LDC #: 42788A48

VALIDATION FINDINGS WORKSHEET **Continuing Calibration Results Verification**

Page: 1 of 1Reviewer: n2nd Reviewer: Q

METHOD: GC/MS VOA (EPA TO-15)/SIM

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$$

Where: ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

A_x = Area of compound,C_x = Concentration of compound,A_{is} = Area of associated internal standardC_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported	Recalculated	Reported	Recalculated
					RRF (CC)	RRF (CC)	%D	%D
1	20804	7/27/18	C (1st internal standard)	0.28040	0.27731	0.27731	1.10285	1.10361
			AA (2nd internal standard)	0.61005	0.65961	0.65961	8.12436	8.12392
			(3rd internal standard)					
2	20802	7/27/18	S (1st internal standard)	0.10000	0.10394	0.10404	3.93759	4.03654
	SIM		(2nd internal standard)					
			(3rd internal standard)					
3	21002	7/29/18	C (1st internal standard)	0.28040	0.29206	0.29206	4.15962	4.15882
			AA (2nd internal standard)	0.61005	0.69331	0.69331	13.64883	13.64837
			(3rd internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.



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QUALITY CONTROL DATA

Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

QC Batch: 553217 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR SIM SCAN
Associated Lab Samples: 10441103001, 10441103003, 10441103005, 10441103007, 10441103009, 10441103011, 10441103013

METHOD BLANK: 3005496 Matrix: Air
Associated Lab Samples: 10441103001, 10441103003, 10441103005, 10441103007, 10441103009, 10441103011, 10441103013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/m3	ND	0.041	07/27/18 11:24	
Trichloroethene	ug/m3	ND	0.055	07/27/18 11:24	
Vinyl chloride	ug/m3	ND	0.026	07/27/18 11:24	

LABORATORY CONTROL SAMPLE: 3005497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/m3	.41	0.38	92	61-130	
Trichloroethene	ug/m3	.55	0.57	104	58-141	
Vinyl chloride	ug/m3	.26	0.26	99	61-136	

SAMPLE DUPLICATE: 3006156

Parameter	Units	10441103009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	0.087	.085J		25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

QC Batch: 553217 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR SIM SCAN
Associated Lab Samples: 10441103001, 10441103003, 10441103005, 10441103007, 10441103009, 10441103011, 10441103013

METHOD BLANK: 3005496 Matrix: Air
Associated Lab Samples: 10441103001, 10441103003, 10441103005, 10441103007, 10441103009, 10441103011, 10441103013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/m3	ND	0.041	07/27/18 11:24	0.005 0.02 x2
Trichloroethene	ug/m3	ND	0.055	07/27/18 11:24	0.027 x2
Vinyl chloride	ug/m3	ND	0.026	07/27/18 11:24	0.005 0.01 x2

LABORATORY CONTROL SAMPLE: 3005497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/m3	.41	0.38	92	61-130	
Trichloroethene	ug/m3	.55	0.57	104	58-141	
Vinyl chloride	ug/m3	.26	0.26	99	61-136	

SAMPLE DUPLICATE: 3006156

Parameter	Units	10441103009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	0.087	.085J		25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AS Effluent #1 Cert# 2064		Lab ID: 10441103002	Collected: 07/26/18 17:25	Received: 07/27/18 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1	0.15	07/16/18 14:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/16/18 14:39	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/16/18 14:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/16/18 14:39	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/16/18 14:39	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/16/18 14:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1	0.268	07/16/18 14:39	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		07/16/18 14:39	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1	0.126	07/16/18 14:39	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-1 North #1 Cert# 0944		Lab ID: 10441103004	Collected: 07/26/18 17:39	Received: 07/27/18 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		06/15/18 10:22	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		06/15/18 10:22	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/15/18 10:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/15/18 10:22	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		06/15/18 10:22	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		06/15/18 10:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		06/15/18 10:22	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		06/15/18 10:22	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		06/15/18 10:22	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-2 East #1 Cert# 1265		Lab ID: 10441103006	Collected: 07/26/18 16:31	Received: 07/27/18 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/05/18 13:26	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/05/18 13:26	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/05/18 13:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/05/18 13:26	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/05/18 13:26	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/05/18 13:26	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/05/18 13:26	71-55-6	
Trichloroethene	0.48J	ug/m3	0.55	1		07/05/18 13:26	79-01-6	2M
Vinyl chloride	ND	ug/m3	0.26	1		07/05/18 13:26	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-3 South #1 Cert# 2750 Lab ID: 10441103008 Collected: 07/26/18 17:37 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/18/18 14:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/18/18 14:59	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/18/18 14:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/18/18 14:59	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/18/18 14:59	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/18/18 14:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/18/18 14:59	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		07/18/18 14:59	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		07/18/18 14:59	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-4 West #1 Cert# 0603 Lab ID: 10441103010 Collected: 07/26/18 17:05 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		06/23/18 13:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		06/23/18 13:24	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/23/18 13:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/23/18 13:24	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		06/23/18 13:24	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		06/23/18 13:24	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		06/23/18 13:24	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		06/23/18 13:24	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		06/23/18 13:24	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-5 West #2 Cert# 2700 Lab ID: 10441103012 Collected: 07/26/18 17:16 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/20/18 10:11	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/20/18 10:11	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/20/18 10:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/20/18 10:11	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/20/18 10:11	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/20/18 10:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/20/18 10:11	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		07/20/18 10:11	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		07/20/18 10:11	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA Duplicate Cert# 0856		Lab ID: 10441103014	Collected: 07/26/18 16:31	Received: 07/27/18 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/18/18 14:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/18/18 14:28	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/18/18 14:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/18/18 14:28	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/18/18 14:28	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/18/18 14:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/18/18 14:28	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		07/18/18 14:28	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		07/18/18 14:28	75-01-4	3M

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

SAMPLE QUALIFIERS

Sample: 10441103003

[1] Results confirmed by second analysis.

Sample: 10441103007

[1] Field measurement according to sampling gauge showed final pressure of -11 inHg. Laboratory return pressure indicated a final canister pressure of -3.5 inHg. Upon laboratory testing, sampling gauge confirmed to be faulty, providing inaccurate final vacuum in the field. The laboratory measurement indicates linear sample collection.

ANALYTE QUALIFIERS

1M Detection of this analyte in the associated canister certification exceeded the MDL of 0.268 ug/m3. Result potentially bias high.

2M The analyte was detected at or above the Method Detection Limit of 0.268 ug/m3 but below the Reporting Limit of 0.546 ug/m3. Any detection in associated samples may indicate a high bias.

3M The analyte was not detected at or above the Method Detection Limit of 0.126 ug/m3. Any detection in associated samples below this value may indicate a high bias.

4M The analyte was not detected at or above the Method Detection Limit of 0.15 ug/m3. Any detection in associated samples below this value may indicate a high bias.

5M The analyte was not detected at or above the Method Detection Limit of 0.268 ug/m3. Any detection in associated samples below this value may indicate a high bias.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10441103001	AS Effluent #1 (980 Hurricane)	TO-15	553458		
10441103003	AA-1 North #1 (980 Hurricane)	TO-15	553458		
10441103005	AA-2 East #1 (980 Hurricane)	TO-15	553458		
10441103007	AA-3 South #1 (980 Hurricane)	TO-15	553458		
10441103009	AA-4 West #1 (980 Hurricane)	TO-15	553458		
10441103011	AA-5 West #2 (980 Hurricane)	TO-15	553458		
10441103013	AA Duplicate (980 Hurricane)	TO-15	553458		
10441103002	AS Effluent #1 Cert# 2064	TO-15	553191		
10441103004	AA-1 North #1 Cert# 0944	TO-15	553191		
10441103006	AA-2 East #1 Cert# 1265	TO-15	553191		
10441103008	AA-3 South #1 Cert# 2750	TO-15	553191		
10441103010	AA-4 West #1 Cert# 0603	TO-15	553191		
10441103012	AA-5 West #2 Cert# 2700	TO-15	553191		
10441103014	AA Duplicate Cert# 0856	TO-15	553191		
10441103001	AS Effluent #1 (980 Hurricane)	TO-15	553217		
10441103003	AA-1 North #1 (980 Hurricane)	TO-15	553217		
10441103005	AA-2 East #1 (980 Hurricane)	TO-15	553217		
10441103007	AA-3 South #1 (980 Hurricane)	TO-15	553217		
10441103009	AA-4 West #1 (980 Hurricane)	TO-15	553217		
10441103011	AA-5 West #2 (980 Hurricane)	TO-15	553217		
10441103013	AA Duplicate (980 Hurricane)	TO-15	553217		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 10441103



10441103

27829


Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program	
Company: <u>IWM Consulting</u>		Report To: <u>B. Gentry</u>		Attention: <u>SAME</u>		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other	
Address: <u>7428 Rockville Rd</u>		Copy To: <u>Chris Newell</u>		Company Name:		<input type="checkbox"/> Reporting Units Location of Sampling by State: <u>IN</u> <input checked="" type="checkbox"/> ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPMV <input type="checkbox"/> PPMV	
Indpls, IN 46214		Purchase Order No.:		Address:		Report Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input checked="" type="checkbox"/> IV <input type="checkbox"/> Other	
Email To: <u>bgentry@iwmconsult.com</u>		Project Name: <u>Former Amphenol Facility</u>		Pace Quote Reference: <u>Amphenol</u>			
Phone: <u>317 347 1111</u> Fax:		Project Number:		Pace Project Manager/Sales Rep. <u>Carolynne Trent/Marian Hensley</u>			
Requested Due Date/TAT: <u>24-HR</u>				Pace Profile #:			

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TS 1 Liter Summa Can 1LC 5 Liter Summa Can 5LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID	
					COMPOSITE START EMV/CIRAB		COMPOSITE -						PM10	SC - Fixed Gas (%)	TO-9	TO-11 (Methane)	TO-11 (PCBs)	TO-13 (PAH)	TO-14	TO-15		TO-15 Short List
					DATE	TIME	DATE	TIME														
1	AS Effluent #1 (980 Hurricane)	6LC	-	7/26/18	09:37	7/26/18	17:35	-29"	-3"	2064	0372									X	01, 02	
2	AA-1 North #1 (980 Hurricane)	6LC	-	7/26/18	09:43	7/26/18	15:39	-30"	-3"	0944	1794									X	03, 04	
3	AA-2 East #1 (980 Hurricane)	6LC	-	7/26/18	09:40	7/26/18	16:31	-30"	-3"	1265	0145									X	05, 06	
4	AA-3 South #1 (980 Hurricane)	6LC	-	7/26/18	09:37	7/26/18	17:37	-30"	-11"	2750	1033									X	07, 08	
5	AA-4 West #1 (980 Hurricane)	6LC	-	7/26/18	09:38	7/26/18	17:05	-29"	-25"	0603	0115									X	09, 010	
6	AA-5 West #2 (980 Hurricane)	6LC	-	7/26/18	09:46	7/26/18	17:16	-30"	-3"	2700	1275									X	011, 012	
7	AA Duplicate (980 Hurricane)	6LC	-	7/26/18	09:40	7/26/18	16:31	-30"	-3"	0856	0145									X	013, 014	
8																						
9																						
10																						
11																						
12																						

Comments:		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
① Short list includes: ② Run TCE via TO-15 SEM		Brad Gentry/IWM		7/26/18	18:15	Eric Paw		7/27/18	930				
Vinyl Chloride													
Trans 1,2 DCE													
cis 1,2 DCE													
1,2 DCA													
methylene chloride													
1,1,1 TCA													
TCE													
PCE													

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	Brad Gentry/Chris Newell				
SIGNATURE of SAMPLER:	<u>[Signature]</u>				
DATE Signed (MM/DD/YY)	07/26/18				

	Document Name: Air Sample Condition Upon Receipt	Document Revised: 02May2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.15	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:

Project #:

WO#: 10441103

PM: CT1

Due Date: 07/30/18

CLIENT: IWM CONSULT

 Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client
☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7475 9834 1075, 1053, 1064

 Custody Seal on Cooler/Box Present? ☐ Yes ☒ No
 Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

 Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other:
Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C):

Thermom. Used:

Temp should be above freezing to 6°C Correction Factor:

Date & Initials of Person Examining Contents:

Type of ice Received ☐ Blue ☐ Wet ☒ None☐ G87A9170600254☒ G87A9158100842

RG 7/27/18

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. 24 hr.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans <u>Y</u> N (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.

Samples Received: 8 Cans FFPT					Pressure Gauge # 10AIR26				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
EFF			-3.5	+5	Unsealed	3288	0922	-30	-
AA-1			-4	"					
" 2			-4	"					
" 3			-3.5	"					
" 4			-4.5	"					
" 5			-4.5	"					
PUP			-4	"					
Unsealed	2103	1792	-28	-					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Brad Gentry

Date/Time: 7/27/18 email

Comments/Resolution: include 1,1,DCA in the compound list

Brad was notified that can 2750/fc1033 was received at -3.5 vacuum when measured on lab equipment, as noted above. The gauge appeared to be malfunctioning in field.

Project Manager Review:

Date: 7/27/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 10441103

10441103

27829

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program	
Company: <u>IWM Consulting</u>		Report To: <u>B. Gentry</u>		Attention: <u>SAME</u>		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other	
Address: <u>7428 Rockville Rd</u>		Copy To: <u>Chris Newell</u>		Company Name:		Location of Sampling by State: <u>IN</u>	
<u>Indpls, IN 46214</u>		<u>Grog Scarponi</u>		Address:		Reporting Units: ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPMV <input type="checkbox"/> PPMV <input type="checkbox"/> Other: <input type="checkbox"/>	
Email To: <u>bgentry@iwmsconsult.com</u>		Purchase Order No.:		Pace Quote Reference: <u>Amphenol</u>		Report Level: <u>II</u> <u>III</u> <u>IV</u> <input checked="" type="checkbox"/> Other	
Phone: <u>317 347 1111</u> Fax:		Project Name: <u>Former Amphenol Facility</u>		Pace Project Manager/Sales Rep. <u>Carolanne Trent / Marian Hensley</u>			
Requested Due Date/TAT: <u>24-HR</u>		Project Number:		Pace Profile #:			

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM-10		MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:										Pace Lab ID
							COMPOSITE START		COMPOSITE						PM10	30-Fixer Gas (%)	TO-9	TO-15M (Methane)	TO-15 (PCBs)	TO-15 (PAH)	TO-15	TO-15 Short List			
							DATE	TIME	DATE	TIME															
							DATE	TIME	DATE	TIME															
1	AS Effluent #1 (980 Hurricane)		6LC	-	7/26/18	09:37	7/26/18	17:25	-29"	-3"	20640372													X	001,002
2	AA-1 North #1 (980 Hurricane)		6LC	-	7/26/18	09:43	7/26/18	15:39	-30"	-3"	09441794													X	003,004
3	AA-2 East #1 (980 Hurricane)		6LC	-	7/26/18	09:40	7/26/18	16:31	-30"	-3"	12650145													X	005,006
4	AA-3 South #1 (980 Hurricane)		6LC	-	7/26/18	09:37	7/26/18	17:37	-30"	-11"	27501033													X	007,008
5	AA-4 West #1 (980 Hurricane)		6LC	-	7/26/18	09:38	7/26/18	17:05	-29"	-25"	06030115													X	009,010
6	AA-5 West #2 (980 Hurricane)		6LC	-	7/26/18	09:46	7/26/18	17:16	-30"	-3"	27001275													X	011,012
7	AA Duplicate (980 Hurricane)		6LC	-	7/26/18	09:40	7/26/18	16:31	-30"	-3"	08560145													X	013,014
8																									
9																									
10																									
11																									
12																									

Comments:

① Short list includes: Vinyl chloride
Trans 1,2 DCE
cis 1,2 DCE
1,2 DCA
methylene chloride
1,1,1 TCA
TCE
PCE

② Run TCE via TO-15 SIM

③ Verify + record all pressures of canisters upon receipt at the lab.

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Brad Gentry / IWM	7/26/18	18:15	Eric Paw	7/27/18	930	<input checked="" type="checkbox"/> YIN <input checked="" type="checkbox"/> YIN <input checked="" type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN <input type="checkbox"/> YIN
SAMPLER NAME AND SIGNATURE						Temp in °C Received on Ice Custody Sealed Cooler Samples Intact
PRINT Name of SAMPLER: <u>Brad Gentry / Chris Newell</u>						
SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YYYY): <u>07/26/18</u>						



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 06, 2018

Brad Gentry
IWM Consulting Group, LLC.
7428 Rockville Road
Indianapolis, IN 46214

RE: Project: Former Amphenol Facility-Revised Report
Pace Project No.: 10441103

Dear Brad Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on July 27, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on July 30, 2018 to add information to the Sample Qualifiers and Analyte Qualifiers sections. No data was modified.

This report was revised on August 6, 2018 to report vinyl chloride and 1,2-dichloroethane by TO15 SIM to attain lower reporting limits. The ending collection time for sample AA-1 North #1 (980 Hurricane) was also corrected per attached revised COC.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Chris Newell, IWM Consulting Group



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC

1700 Elm Street - Suite 200

Minneapolis, MN 55414

(612)607-1700

CERTIFICATIONS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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 Minneapolis, MN 55414
 (612)607-1700

SAMPLE SUMMARY

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10441103001	AS Effluent #1 (980 Hurricane)	Air	07/26/18 17:25	07/27/18 09:30
10441103002	AS Effluent #1 Cert# 2064	Air	07/26/18 17:25	07/27/18 09:30
10441103003	AA-1 North #1 (980 Hurricane)	Air	07/26/18 17:39	07/27/18 09:30
10441103004	AA-1 North #1 Cert# 0944	Air	07/26/18 15:39	07/27/18 09:30
10441103005	AA-2 East #1 (980 Hurricane)	Air	07/26/18 16:31	07/27/18 09:30
10441103006	AA-2 East #1 Cert# 1265	Air	07/26/18 16:31	07/27/18 09:30
10441103007	AA-3 South #1 (980 Hurricane)	Air	07/26/18 17:37	07/27/18 09:30
10441103008	AA-3 South #1 Cert# 2750	Air	07/26/18 17:37	07/27/18 09:30
10441103009	AA-4 West #1 (980 Hurricane)	Air	07/26/18 17:05	07/27/18 09:30
10441103010	AA-4 West #1 Cert# 0603	Air	07/26/18 17:05	07/27/18 09:30
10441103011	AA-5 West #2 (980 Hurricane)	Air	07/26/18 17:16	07/27/18 09:30
10441103012	AA-5 West #2 Cert# 2700	Air	07/26/18 17:16	07/27/18 09:30
10441103013	AA Duplicate (980 Hurricane)	Air	07/26/18 16:31	07/27/18 09:30
10441103014	AA Duplicate Cert# 0856	Air	07/26/18 16:31	07/27/18 09:30
10441103015	Unused Can #2103	Air		07/27/18 09:30
10441103016	Unused Can #3288	Air		07/27/18 09:30

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10441103001	AS Effluent #1 (980 Hurricane)	TO-15	MJL	8	PASI-M
		TO-15	MJL	1	PASI-M
10441103002	AS Effluent #1 Cert# 2064	TO-15	NCK	9	PASI-M
10441103003	AA-1 North #1 (980 Hurricane)	TO-15	NCK	6	PASI-M
		TO-15	NCK	3	PASI-M
10441103004	AA-1 North #1 Cert# 0944	TO-15	NCK	9	PASI-M
10441103005	AA-2 East #1 (980 Hurricane)	TO-15	NCK	6	PASI-M
		TO-15	NCK	3	PASI-M
10441103006	AA-2 East #1 Cert# 1265	TO-15	AFV	9	PASI-M
10441103007	AA-3 South #1 (980 Hurricane)	TO-15	MJL	6	PASI-M
		TO-15	MJL	3	PASI-M
10441103008	AA-3 South #1 Cert# 2750	TO-15	AFV	9	PASI-M
10441103009	AA-4 West #1 (980 Hurricane)	TO-15	MJL	6	PASI-M
		TO-15	MJL	3	PASI-M
10441103010	AA-4 West #1 Cert# 0603	TO-15	MJL	9	PASI-M
10441103011	AA-5 West #2 (980 Hurricane)	TO-15	MJL	6	PASI-M
		TO-15	MJL	3	PASI-M
10441103012	AA-5 West #2 Cert# 2700	TO-15	CH1	9	PASI-M
10441103013	AA Duplicate (980 Hurricane)	TO-15	MJL	6	PASI-M
		TO-15	MJL	3	PASI-M
10441103014	AA Duplicate Cert# 0856	TO-15	AFV	9	PASI-M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AS Effluent #1 (980 Hurricane) Lab ID: 10441103001 Collected: 07/26/18 17:25 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	39.2	ug/m3	1.3	1.52		07/27/18 19:16	75-34-3	
1,2-Dichloroethane	17.9	ug/m3	0.62	1.52		07/27/18 19:16	107-06-2	
cis-1,2-Dichloroethene	411	ug/m3	36.8	45.6		07/29/18 15:37	156-59-2	
trans-1,2-Dichloroethene	3.1	ug/m3	1.2	1.52		07/27/18 19:16	156-60-5	
Methylene Chloride	ND	ug/m3	5.4	1.52		07/27/18 19:16	75-09-2	
Tetrachloroethene	1950	ug/m3	31.4	45.6		07/29/18 15:37	127-18-4	
1,1,1-Trichloroethane	285	ug/m3	50.6	45.6		07/29/18 15:37	71-55-6	
Vinyl chloride	12.1	ug/m3	0.40	1.52		07/27/18 19:16	75-01-4	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
Trichloroethene	665	ug/m3	2.5	45.6		07/29/18 15:37	79-01-6	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AS Effluent #1 Cert# 2064 Lab ID: 10441103002 Collected: 07/26/18 17:25 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/16/18 14:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/16/18 14:39	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/16/18 14:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/16/18 14:39	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/16/18 14:39	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/16/18 14:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/16/18 14:39	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		07/16/18 14:39	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		07/16/18 14:39	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-1 North #1 (980 Hurricane) Lab ID: 10441103003 Collected: 07/26/18 17:39 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		07/27/18 15:13	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:13	156-60-5	
Methylene Chloride	ND	ug/m3	5.5	1.55		07/27/18 15:13	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.55		07/27/18 15:13	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		07/27/18 15:13	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.064	1.55		07/27/18 15:13	107-06-2	
Trichloroethene	ND	ug/m3	0.085	1.55		07/27/18 15:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.040	1.55		07/27/18 15:13	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-1 North #1 Cert# 0944 Lab ID: 10441103004 Collected: 07/26/18 15:39 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		06/15/18 10:22	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		06/15/18 10:22	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/15/18 10:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/15/18 10:22	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		06/15/18 10:22	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		06/15/18 10:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		06/15/18 10:22	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		06/15/18 10:22	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		06/15/18 10:22	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-2 East #1 (980 Hurricane) Lab ID: 10441103005 Collected: 07/26/18 16:31 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		07/27/18 15:48	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 15:48	156-60-5	
Methylene Chloride	ND	ug/m3	5.5	1.55		07/27/18 15:48	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.55		07/27/18 15:48	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		07/27/18 15:48	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.064	1.55		07/27/18 15:48	107-06-2	
Trichloroethene	0.20	ug/m3	0.085	1.55		07/27/18 15:48	79-01-6	1M
Vinyl chloride	ND	ug/m3	0.040	1.55		07/27/18 15:48	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-2 East #1 Cert# 1265 Lab ID: 10441103006 Collected: 07/26/18 16:31 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/05/18 13:26	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/05/18 13:26	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/05/18 13:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/05/18 13:26	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/05/18 13:26	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/05/18 13:26	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/05/18 13:26	71-55-6	
Trichloroethene	0.48J	ug/m3	0.55	1		07/05/18 13:26	79-01-6	2M
Vinyl chloride	ND	ug/m3	0.26	1		07/05/18 13:26	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-3 South #1 (980 Hurricane) Lab ID: 10441103007 Collected: 07/26/18 17:37 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.52		07/27/18 16:23	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		07/27/18 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.52		07/27/18 16:23	156-60-5	
Methylene Chloride	ND	ug/m3	5.4	1.52		07/27/18 16:23	75-09-2	
Tetrachloroethene	ND	ug/m3	1.0	1.52		07/27/18 16:23	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.52		07/27/18 16:23	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.062	1.52		07/27/18 16:23	107-06-2	
Trichloroethene	ND	ug/m3	0.083	1.52		07/27/18 16:23	79-01-6	
Vinyl chloride	ND	ug/m3	0.040	1.52		07/27/18 16:23	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-3 South #1 Cert# 2750 Lab ID: 10441103008 Collected: 07/26/18 17:37 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/18/18 14:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/18/18 14:59	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/18/18 14:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/18/18 14:59	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/18/18 14:59	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/18/18 14:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/18/18 14:59	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		07/18/18 14:59	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		07/18/18 14:59	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-4 West #1 (980 Hurricane) Lab ID: 10441103009 Collected: 07/26/18 17:05 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.58		07/27/18 16:57	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 16:57	156-60-5	
Methylene Chloride	ND	ug/m3	5.6	1.58		07/27/18 16:57	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.58		07/27/18 16:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.58		07/27/18 16:57	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.065	1.58		07/27/18 16:57	107-06-2	
Trichloroethene	0.087	ug/m3	0.086	1.58		07/27/18 16:57	79-01-6	
Vinyl chloride	ND	ug/m3	0.041	1.58		07/27/18 16:57	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-4 West #1 Cert# 0603 Lab ID: 10441103010 Collected: 07/26/18 17:05 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		06/23/18 13:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		06/23/18 13:24	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/23/18 13:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/23/18 13:24	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		06/23/18 13:24	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		06/23/18 13:24	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		06/23/18 13:24	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		06/23/18 13:24	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		06/23/18 13:24	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-5 West #2 (980 Hurricane) Lab ID: 10441103011 Collected: 07/26/18 17:16 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.58		07/27/18 18:07	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 18:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.58		07/27/18 18:07	156-60-5	
Methylene Chloride	ND	ug/m3	5.6	1.58		07/27/18 18:07	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.58		07/27/18 18:07	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.58		07/27/18 18:07	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.065	1.58		07/27/18 18:07	107-06-2	
Trichloroethene	0.43	ug/m3	0.086	1.58		07/27/18 18:07	79-01-6	
Vinyl chloride	ND	ug/m3	0.041	1.58		07/27/18 18:07	75-01-4	

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA-5 West #2 Cert# 2700		Lab ID: 10441103012	Collected: 07/26/18 17:16	Received: 07/27/18 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/20/18 10:11	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.41	1		07/20/18 10:11	107-06-2	4M
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/20/18 10:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/20/18 10:11	156-60-5	
Methylene Chloride	ND	ug/m3	3.5	1		07/20/18 10:11	75-09-2	
Tetrachloroethene	ND	ug/m3	0.69	1		07/20/18 10:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/20/18 10:11	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		07/20/18 10:11	79-01-6	5M
Vinyl chloride	ND	ug/m3	0.26	1		07/20/18 10:11	75-01-4	3M

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ANALYTICAL RESULTS

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

Sample: AA Duplicate (980 Hurricane) Lab ID: 10441103013 Collected: 07/26/18 16:31 Received: 07/27/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		07/27/18 18:41	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		07/27/18 18:41	156-60-5	
Methylene Chloride	ND	ug/m3	5.5	1.55		07/27/18 18:41	75-09-2	
Tetrachloroethene	ND	ug/m3	1.1	1.55		07/27/18 18:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		07/27/18 18:41	71-55-6	
TO15 MSV AIR SIM SCAN		Analytical Method: TO-15						
1,2-Dichloroethane	ND	ug/m3	0.064	1.55		07/27/18 18:41	107-06-2	
Trichloroethene	0.16	ug/m3	0.085	1.55		07/27/18 18:41	79-01-6	
Vinyl chloride	ND	ug/m3	0.040	1.55		07/27/18 18:41	75-01-4	

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QUALITY CONTROL DATA

Project: Former Amphenol Facility-Revised Report

Pace Project No.: 10441103

QC Batch: 553458 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10441103001, 10441103003, 10441103005, 10441103007, 10441103009, 10441103011, 10441103013

METHOD BLANK: 3007016

Matrix: Air

Associated Lab Samples: 10441103001, 10441103003, 10441103005, 10441103007, 10441103009, 10441103011, 10441103013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/27/18 11:24	
1,1-Dichloroethane	ug/m3	ND	0.82	07/27/18 11:24	
1,2-Dichloroethane	ug/m3	ND	0.41	07/27/18 11:24	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/27/18 11:24	
Methylene Chloride	ug/m3	ND	3.5	07/27/18 11:24	
Tetrachloroethene	ug/m3	ND	0.69	07/27/18 11:24	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/27/18 11:24	
Vinyl chloride	ug/m3	ND	0.26	07/27/18 11:24	

LABORATORY CONTROL SAMPLE: 3007017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	58.1	105	70-135	
1,1-Dichloroethane	ug/m3	41.1	41.2	100	70-134	
1,2-Dichloroethane	ug/m3	41.1	42.3	103	70-136	
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	70-136	
Methylene Chloride	ug/m3	177	174	98	67-132	
Tetrachloroethene	ug/m3	68.9	74.5	108	70-133	
trans-1,2-Dichloroethene	ug/m3	40.3	45.2	112	70-132	
Vinyl chloride	ug/m3	26	25.7	99	70-141	

SAMPLE DUPLICATE: 3007019

Parameter	Units	10441103009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	.52J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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